

Nº 3.

Cable Survey.

33 Oct 18 1891

to

145 Nov 9th 1891

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2752

No. 98 Survey. Date Oct 18-1891.

Sigsbee Machine. #1 Reel. Navy.

Turns 2498 Cor. + 172 Depth 2670 fms.

Shot or lead 60 lbs.

Bottom br oz.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 65 Surface 69 Drift —

Trawl or dredge —

p.m.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-50-45	04-10	0		
52-0	03-20	100		
53-0	02-40	200		
54-0	01-50	300		
55-0	01-05	400		
55-45	10-0-15	500		
57-0	59-25	600		
58-15	58-30	700		
59-25	57-25	800		
9-0-30	56-25	900		
01-50	55-20	1000		
03-0	54-10	1100		
04-20	53-50	1200		
05-35	51-40	1300		
07-0	50-5	1400		
08-15	48-25	1500		
09-45	46-50	1600		
11-05	45-0	1700		
12-35	42-55	1800		
14-0	40-30	1900		
15-35	38-20	2000		
17-25	36-30	2100		
19-10	35-0	2200		
20-55	33-0	2300		
22-35	9-30-25	2400		

Pat: log read 26.3
Knots while pulling in.
Law

23-25	9-28-20	2498	4706	281
		2500	5498	49
		2600		
		2700	2208	172
		2800		2498
		2900		2670
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2753

No. 99 Survey. Date Oct 23^d 1891
 Sigsbee Machine. #1 Reel. Navy.

Turns 125 Cor. + 11 Depth 136 fms
 Lead 35

Bottom gn. M.

Bottom temperature

No. of thermometer 68848 Cor.

Corrected temperature

Air 68 Surface 60 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11. 51. 10	56. 30	0		
53. 50	55. 00	100		
54. 10	11. 54. 20	125 200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat. log read 46.6.
 Raw — knots while reeling in.

4706
128-
4581

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

221
210
11

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2754

No. 100 Survey. Date Oct-23-1891.

Sigsbee Machine. #1 Reel. Navy.

Turns 159 Cor. + 14 Depth 173 fms.

~~Shot or lead~~ 35 lbs.

Bottom gn. M.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature: —

Air 68 Surface 60 Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12-04-00	10-00	0		
06-00	09-00	100		
06-45	12-08-00	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat. log read 47.6
 Ran $2\frac{1}{10}$ knots while reeling in.

	2500	4709	221
	2600	159	207
	2700	4550	14
	2800		159
	2900		173
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

22

2755

No. 101 Survey. Date Oct: 23-1891.

Sigsbee Machine. #1 Reel. Navy.

Turns 204 Cor. + 19 Depth 223 fms.

Shot or lead 35 lbs.

Bottom gn. M.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 68 Surface 60 Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12-18-45	25-00	0		
19-45	23-45	100		
21-00	12-22-30	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat. log read 48.6 -
 Saw 2 1/2 knots while reeling in.

	2500	4709	221
	2600	<u>204</u>	<u>202</u>
	2700	4505	19
	2800		<u>204</u>
	2900		<u>223</u>
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *102* Date *Feb 22nd 1891*
 Machine. *Reel*
 Turns *185* Cor. + *17* Depth *202 fms.*
 Shot or lead *35 lbs.*

Bottom

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air *68* Surface *60* Drift —

Trawl or dredge —

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>12-33-00</i>	<i>38-00</i>	0		
<i>34-15</i>	<i>37-00</i>	100		
<i>35-10</i>	<i>12-36-00</i>	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat. Log read 49.6 --

Raw 1/10 knots with 12 reelings.

	2500	61	
	2600		
	2700		
	2800		
	2900		
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

107. 2758

No. 103 Date May 22-1891

Machine. #1 Reel.

Turns 55 Cor. + 22 Depth 77 fms

Shot or lead 35 lb

Bottom gn. M.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 61 Surface Drift —

Trawl or dredge —

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
12-46-45	55-00	0		
48-00	54-00	100		
49-45	53-00	200		
50-30	12-52-00	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat. log read 50.6
 Reel. knots, while reeling in.

	2500	4706	220
	2600	<u>255</u>	<u>198</u>
	2700	111.7	
	2800		<u>200</u>
	2900		277
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

107

2759

No. 104 Date Oct 23-18

Sigsbee Machine. Reel. Navy.

Turns 71 Cor. + 24 Depth 300 fms

Shot or lead 35 lbs.

Bottom gn. M.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 63 Surface 60 Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1-02-30	11-15	0		
04-00	10-30	100		
06-00	09-45	200		
07-30	1-09-00	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat. log read 71
 Run — knots while reeling in

	2500	97.5	2.5
	2600	97.5	1.5
	2700	97.5	1.5
	2800		2.5
	2900		3.5
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507. 2760

No. 105 Survey. Date Oct 23-1901.

Sigsbee Machine. #1 Reel. Rain.

Turns 235 Cor. + 20 Depth 255 fms

Shot or lead 35 lbs.

Bottom gn. M.

Bottom temperature —

No. of thermometer —

Cor. —

Corrected temperature —

Air 63

Surface 62

Drift —

Trawl or dredge —

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1-20-30 25-15
22-00 27-30
23-30 26-45
24-01 1-26-00

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

Lat. log read 52.6
Raw 11/10
white. reading 11/10

	2500	15 06	220
	2600	<u>35</u>	<u>200</u>
	2700	14 71	20
	2800		<u>255</u>
	2900		255
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2761

No. 106 *Survey* Date *Sept 22-1891.*

Sigsbee Machine. #1 Reel.

Turns 155 Cor. + 23 Depth 418 fms.

Shot or lead 35 lbs.

Bottom gn. M.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 63 Surface 60 Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1-36-00	46-30	0		
37-30	45-45	100		
39-00	44-45	200		
40-30	44-00	300		
41-45	43-00	400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat. log read 53.6 -
 Saw 410 knots while reeling in.

	2500	4700	
	2600	000	187
	2700	1021	33
	2800		
	2900		415
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

H. C. 50% 2762

No. 107 Date Oct 23 1911

Machine / Reel. Sigsbee

Turns 462 Cor. + 40 Depth 502 fms

Shot or lead 35 lbs.

Bottom gn. M.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 63 Surface 60 Drift —

Trawl or dredge —

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

1-53-30	06-15	0
55-00	05-30	100
56-30	04-45	200
58-00	04-00	300
59-15	03-00	400
2-00-30	2-02-00	500
		600
		700
		800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

Pat. log read 54.0 -
 Ran 2 1/2 knots while pulling in.

	2500	4706	220
	2600	462	
	2700	4244	54
	2800		462
	2900		502
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2763

No. 108 Date 1881 23 11/11

Sigsbee Machine. 1 / Reel. Navy.

Turns 456 Cor. + 39 Depth 495 fms

Shot or lead 60 lbs.

Bottom gn. M.

Bottom temperature 39.5

No. of thermometer 68848 Cor. -0.1

Corrected temperature 39.4

Air 60 Surface 59 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2-14-00	24-30	0
15-00	23-30	100
16-00	22-45	200
17-15	22-00	300
18-30	21-15	400
19-10	2-20-30	500
		600
		700
		800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

Pat. log read 55.6 -
 Ran 2 1/2 knots while weighing.

	2500	47.05	22.0
	2600	45.6	18.1
	2700	44.5	15.2
	2800		12.4
	2900		9.5
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2764

No. 109 Sigsbee, Date Oct 23-1871

Sigsbee Machine. #1 Reel. Navy.

Turns 113 Cor. + 9 Depth 122 fms.

Shot ~~on lead~~ 60 lbs.

Bottom gy. S.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 60 Surface 59 Drift —

Trawl or dredge —

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2-31-30

36-0

0

3-45

2-34-30

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Pat. log read 56.6
Ran — knots while pulling in.

	2500	8721	22
	2600	113	211
	2700	4575	0
	2800		112
	2900		122
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

K. D. 2765

No. 116 Date Oct 20 1881

Sigsbee Machine #1 Reel. Navy.

Turns 406 Cor. + 35 Depth 441

Shot ~~or lead~~ 60 lbs.

Bottom gn. M. S.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 60 Surface 59 Drift —

Trawl or dredge —

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2-45-30

56-00

0

46-45

55-15

100

48-30

54-30

200

50-00

53-45

300

51-30

2-53-00

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Pat. Log read 57.5.
Raw — knots while reeling in*

	2500	(17) 1 1/2	2 1/2
	2600		1 1/2
	2700		1 1/2
	2800		1 1/2
	2900		1 1/2
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 111 Date *Nov 23 1891*
Machine. *#1* Reel. *Am.*

Turns *179* Cor. + *17* Depth *196 fms.*

Shot or lead *60 lbs.*

Bottom *gn. m.*

Bottom temperature *—*

No. of thermometer *68848* Cor. *—*

Corrected temperature *—*

Air *60* Surface *56* Drift *—*

Trawl or dredge *—*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Pat. log read

Raw

	2500	4706	220
	2600	<u>179</u>	<u>203</u>
	2700	4527	17
	2800		<u>179</u>
	2900		<u>176</u>
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Sigsbee Machine. #1 Reel. Navy.

Turns 18 Cor. + 16

Depth 32 fms.

Shot or lead 60 lbs.

Bottom dk. S. gn. M.

Bottom temperature 44.8

No. of thermometer 68848 Cor.

Corrected temperature 44.8

Air 60 Surface 58 Drift —

Trawl or dredge —

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
3-22-00	28-00	0		
23-10	27-15	100		
25-00	3-26-30	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat. log read 21.0
 Raw
 knots while reeling in

	2500	64.10	2.25
	2600	1.86	2.00
	2700	9.32	1.6
	2800		1.00
	2900		2.72
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2768

No. 112 Survey. Date 1883-1884.

Sigsbee Machine. #1 Reel. No.

Turns 43 Cor. + 30 Depth 73 fms.

Shot or lead 60 lbs.

Bottom M. S.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 60 Surface 58 Drift

Trawl or dredge—

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
37-30		100		
39-15		200		
41-00	43-30	300		
41-45	3-43-00	400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lat. log read 41.6—
 Run — knots white anchoring m.

	2500	
	2600	1 2
	2700	3
	2800	4 5
	2900	6 7
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	1
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2769

No. 114 Survey. Date Oct 22 1891

Sigsbee Machine. #1 Reel. Tany.

Turns 405 Cor. + 35 Depth 440

Shot or lead 60 lbs.

Bottom

Bottom temperature --

No. of thermometer -- Cor. --

Corrected temperature --

Air 59 Surface 59 Drift --

Trawl or dredge --

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
56-15		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat. log read
Raw
Kato white reeling in

	2500	47.4	
	2600	47.4	
	2700	47.4	
	2800		
	2900		
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2770

No. 1

Date Oct. 23/

Machine. Reel.

Turns 250 Cor. + 51 Depth 371

Shot or lead

Bottom. m. s.

Bottom temperature

No. of thermometer Cor. -

Corrected temperature

Air 59 Surface 58 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat. Log read —
 Raw knots white meeting in.

	2500		
	2600	5.50	1
	2700	6	21
	2800		
	2900		
	3000		
	3100	7 10.6	22
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2771

No. *11* Date *July 1*
Machine *#1* Reel *OA*
 Turns *568* Cor. + *33* Depth *219*
 Shot or lead *60 lbs.*
 Bottom *gn. m. s.*
 Bottom temperature *42.2*
 No. of thermometer *688418* Cor. *-*
 Corrected temperature *42.0*
 Air *59* Surface *57* Drift *—*
 Trawl or dredge *—*

New

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500		1900
	2600		
	2700	4	
	2800		
	2900		
	3000	47	
	3100		
	3200	473	
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

567. 7772

No. 114 Survey Date Oct:

Machine. Reel.

Turns 315 Cor. + 25 Depth 343 fm

Shot or lead

Bottom gn. M. & S

Bottom temperature

No. of thermometer. Cor.

Corrected temperature

Air 59 Surface 58 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4:56 20	62	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	459.1	2
	2600		
	2700		
	2800		
	2900		
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2772

No. 118 Survey Date Oct 28th 1900

Sigsbee Machine. — Reel. —

Turns 364 Cor. + 31 Depth

Shot or lead 60 lb

Bottom gn m + s

Bottom temperature

No. of thermometer Cor.

Corrected temperature —

Air 59 Surface 57 Drift —

Trawl or dredge —

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

P.M.

513.00

0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

7974

No. *111* Date *May 11*
Qigata Machine. *47* Reel. *Waring*
 Turns *434* Cor. + *7* Depth *469* fms
 Shot or lead *60 lb*
 Bottom *gn m. S.*
 Bottom temperature *—*
 No. of thermometer *—* Cor. *—*
 Corrected temperature *—*
 Air *59* Surface *56* Drift *—*
 Trawl or dredge *—*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5-36-0</i>	<i>39-55</i>	0		
	<i>34-10</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1 2975

No. 120 Survey Date Oct. 23/91
 Sigbee Machine. #1 Reel. 4144.

Turns Cor. + Depth

Shot or lead 601

Bottom gn. M. fine Sand

Bottom temperature 37.7

No. of thermometer 68848 Cor. -0.1 -

Corrected temperature 37.7

Air 58 Surface 56 Drift

Trawl or dredge

SOUNDING WIRE.		TEMP.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
	65.10	0		
	04.15	100		
	03.15	200		
	02.15	300		
	01.30	400		
	00.30	500		
	00.00	600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

fine sand

2500	47.56	2.20
2600	52.0	173
2700	414.6	4.7
2800		
2900		
3000	47.10	
3100	50.0	
3200	44.0	
3300		
3400		60.7
3500		
3600		
3700		
3800		
3900		
4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2776

No.

Date

Machine. / Reel.

Turns 687 Cor. +

54

Depth 691 fms.

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

58

Surface

57

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
3.40	29.30	0		
5.45	28.15	100		
6.50	27.25	200		
7.50	26.35	300		
19.00	25.50	400		
20.10	25.00	500		
1.25	24.05	600		
21.50	23.00	700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	4067	101
	2600		511
	2700		
	2800		
	2900	4156	220
	3000	637	15
	3100	7069	54
	3200		7
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1010 2977

No. *1010* Date *10/10/07*

Machine. *Sigsbee* Reel.

Turns *979* Cor. + *75* Depth *979 fms*

Shot or lead *60 lbs*

Bottom *gy. m. s.*

Bottom temperature

No. of thermometer *58* Cor.

Corrected temperature

Air *58* Surface *56* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>40.50</i>	<i>02.10</i>	0		
		100		
<i>45.30</i>	<i>01.15</i>	200		
		300		
		400		
<i>47.15</i>	<i>59.00</i>	500		
<i>48.30</i>	<i>58.00</i>	600		
<i>49.45</i>	<i>57.10</i>	700		
<i>51.05</i>	<i>56.00</i>	800		
<i>52.10</i>	<i>6.58.00</i>	900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

7

73

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2978

No. 123 Traway Date Nov^r 7th 1891-
 Sigbee Machine. #1 Reel. Navy.

Turns 2469 Cor. + 170 Depth 2639 fms.

Shot or lead 60 lbs.

Bottom bn. M. Lava.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 66 Surface 68 Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11-25-00	36-20	0		
26-30	35-20	100		
27-45	34-25	200		
29-00	33-25	300		
30-00	32-25	400		
31-15	31-25	500		
32-15	30-20	600		
33-15	29-10	700		
34-30	28-0	800		
35-45	26-40	900		
37-00	25-30	1000		
38-15	24-10	1100		
39-30	22-55	1200		
40-45	21-35	1300		
42-00	20-15	1400		
43-15	18-45	1500		
44-30	17-25	1600		
45-45	16-0	1700		
47-00	14-15	1800		
48-30	10-45	1900		
49-45	08-45	2000		
51-15	06-45	2100		
	0	2200		
	01-45	2300		
	12-00	2400		

11-56	11-59-30	2469	4706	220
		2500	<u>2469</u>	<u>50</u>
		2600	2237	170
		2700		<u>160</u>
		2800		2639
		2900		
		3000		
		3100		
		3200		
		3300	4706	220
		3400	<u>2469</u>	<u>50</u>
		3500	2237	170
		3600		<u>2469</u>
		3700		<u>2639</u>
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1979

No.

Date

8-11-

Machine.

Reel.

N

Turns

Cor. +

Depth

2520 fms

Shot or lead

60 lb

Bottom

m. m.

Bottom temperature

No. of thermometer

69 47 5

Cor.

1 0 1

Corrected temperature

35.1

Air

66

Surface

67

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11-0	45-20	0
22-30	47-10	100
43-45	49-40	200
44-55	49-30	300
46-15	43-30	400
47-30	42-40	500
48-40	41-50	600
49-50	40-30	700
51-05	39-0	800
		900
		1000
		1100
		1200
		1300
		1400
		1500
		1600
		1700
		1800
		1900
		2000
		2100
		2200
		2300
		2400

	2500	47.06	520
	2600		55
	2700	2351	165
	2800		55
	2900		2026
	3000		
	3100		
	3200	4706	220
	3300	2355	55
	3400	2351	165
	3500		2355
	3600		2520
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

8/7/91

Machine. Reel.

Turns 2478 Cor. + 170 Depth 2648

Shot or Lead

Bottom

m. G.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air Surface

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
52-0	11.40	0		
53-45	10.56	100		
55-0	10.11	200		
		300		
		400		
56-40	09.45	500		
	09.11	600		
01-25	08.25	700		
		800		
03.50	07.50	900		
05.30	5 07.30	1000		
07.00	59.10	1100		
08.40	57.20	1200		
10.10	55.40	1300		
		1400		
13.00	52.10	1500		
14.40	50.10	1600		
16.00	48.10	1700		
17.25	46.10	1800		
19.00	44.10	1900		
20.35	42.10	2000		
22.10		2100		
23.45	37.10	2200		
24.15	35.25	2300		
26.55	4 33.25	2400		

11. 1800	1300	2500	22	
		2600		
		2700		
		2800		220
		2900		50
		3000		<u>170</u>
		3100		
		3200		
		3300	4706	220
		3400	<u>2478</u>	<u>50</u>
		3500	2228	170
		3600		<u>2478</u>
		3700		2648
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No.

Date

Machine.

Reel.

Turns 2347 Cor. + 165 Depth 2512 fms.

Shot or Lead

Bottom bn. Gz.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 64 Surface 67 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
	55.44	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500		
	2600		
	2700		
	2800		
	2900		
	3000		
	3100	4706	220
	3200	<u>2347</u>	<u>55</u>
	3300	2159	165
	3400		<u>2347</u>
	3500		2512
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2787

No. 127, Date Nov 7 8th 1891.

Machine. / Reel.

Turns 2548 Cor. + 173 Depth 2721

Shot or lead 60 lbs.

Bottom m. gy.

Bottom temperature 35.0 -

No. of thermometer Cor. + 0.1

Corrected temperature 35.1

Air 65 Surface 68 Drift -

Trawl or dredge -

SOUNDING WIRE.			DREDGE ROPE.	
DOWN.	UP.	TURNS.	DOWN.	UP.
35-00	41-15	0		
36-05	40-30	100		
37-30	39-45	200		
39-00	38-00	300		
40-30	37-15	400		
42-00	36-30	500		
43-30	35-45	600		
45-00	35-00	700		
46-30	34-15	800		
48-00	33-30	900		
49-30	32-45	1000		
51-00	32-00	1100		
52-30	31-15	1200		
54-00	30-30	1300		
55-30	29-45	1400		
57-00	29-00	1500		
58-30	28-15	1600		
60-00	27-30	1700		
61-30	26-45	1800		
63-00	26-00	1900		
64-30	25-15	2000		
66-00	24-30	2100		
67-30	23-45	2200		
69-00	23-00	2300		
70-30	22-15	2400		

Lead - 8.6 -
 5 1/10 knots while reeling in.

9-05-00	08-30	2500	4706	220
15 45	9-07-30	2600	2548	47
		2700	2158	173
		2800		2548
		2900		2721
		3000		
		3100		
		3200		
		3300		
		3400	4706	220
		3500	2548	47
		3600	2158	173
		3700		2548
		3800		2721
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

AC 5070 2783

No. 128 Date Nov. 28 1891

Machine. #1 Reel. A. 3. 4.

Turns 2265 Cor. + 160 Depth 2425

Shot ~~or lead~~ 60 lbs.

Bottom bn. G. bk. sp.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 66 Surface 68 Drift —

Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12.1 - 0.5	49 - 1.5	0		
12.7 - 1.0	48 - 2.0	100		
13.0 - 1.5	47 - 2.5	200		
13.1 - 2.0	46 - 3.0	300		
13.2 - 2.5	45 - 3.5	400		
13.3 - 3.0	44 - 4.0	500		
13.4 - 3.5	43 - 4.5	600		
13.5 - 4.0	42 - 5.0	700		
13.6 - 4.5	41 - 5.5	800		
13.7 - 5.0	40 - 6.0	900		
13.8 - 5.5	39 - 6.5	1000		
13.9 - 6.0	38 - 7.0	1100		
14.0 - 6.5	37 - 7.5	1200		
14.1 - 7.0	36 - 8.0	1300		
14.2 - 7.5	35 - 8.5	1400		
14.3 - 8.0	34 - 9.0	1500		
14.4 - 8.5	33 - 9.5	1600		
14.5 - 9.0	32 - 10.0	1700		
14.6 - 9.5	31 - 10.5	1800		
14.7 - 10.0	30 - 11.0	1900		
14.8 - 10.5	29 - 11.5	2000		
14.9 - 11.0	28 - 12.0	2100		
15.0 - 11.5	27 - 12.5	2200		
15.1 - 12.0	26 - 13.0	2300		
15.2 - 12.5	25 - 13.5	2400		

log read: 11.5

Raw: 11.5 knots, while pulling in.

It's about 11.5 knots.

	2500	4706	220
	2600	<u>2265</u>	<u>60</u>
	2700	2441	160
	2800		<u>2265</u>
	2900		2425
	3000		
	3100		
	3200		
	3300		
	3400	4706	220
	3500	<u>2265</u>	<u>60</u>
	3600	2441	160
	3700		<u>2265</u>
	3800		2425
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 129 Date

Machine. / Reel.

Turns Cor. +

Depth 2442

Shot or lead 60 lbs.

Bottom br w & g.

Bottom temperature 35.0

No. of thermometer 69473 Cor. +0.1

Corrected temperature 35.1

Air 68 Surface 68 Drift —

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11-42-45

0

54-20

100

52-25

200

50-30

300

54-35

400

50-40

500

50-45

600

50-50

700

50-55

800

50-55

900

50-55

1000

50-55

1100

50-55

1200

50-55

1300

50-55

1400

50-55

1500

50-55

1600

50-55

1700

50-55

1800

50-55

1900

50-55

2000

50-55

2100

50-55

2200

50-55

2300

50-55

2400

log read: 21.6
 Ran
 knot: while pulling in.

	2500		
	2600		
	2700		
	2800		
	2900		
	3000		
	3100		
	3200		
	3300	67.5	58
	3400	32.1	142
	3500	28.6	244.2
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25		61705	+0.1	68.1
50	59.2	61705	0.0	59.3
100	52.4	63919	0.0	52.4
200	46	34815	-0.3	45.7
300	41.6	66848	0.0	41.6
400	40	63902	0.0	40.0
500			0.0	38.1
600		57114	-0.1	38.4
700			0.0	38.0
800			0.0	37.2
900			-0.1	36.6
1000			-1.1	35.1

REMARKS:

2785

No. _____ Date *27/11*

used Machine. *1* Reel.

Turns *7285* Cor. + *1600* Depth *2415* fms.

Shot or lead *60 lb*

Bottom *l*

Bottom temperature _____

No. of thermometer _____ Cor. _____

Corrected temperature _____

Air *68* Surface *68* Drift _____

Trawl or dredge _____

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Log read.
Raw - 2415 fms.

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	47.5
	3400	27.5
	3500	27.5
	3600	27.5
	3700	27.5
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2786

No. *array* Date *Nov 8 1891**Sigsbee* Machine. Reel.Turns *200* Cor. + *200* Depth *200*Shot or lead *60 lb.*Bottom *fn. m.*Bottom temperature *55*No. of thermometer *69473* Cor. *+0.1*Corrected temperature *35.1*Air *69* Surface *68.1* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
		0		
		100		
		200		
	<i>7 20</i>	300		
	<i>11 00</i>	400		
	<i>14 45</i>	500		
	<i>18 15</i>	600		
	<i>22 00</i>	700		
	<i>5 01 05</i>	800		
	<i>5 09 50</i>	900		
	<i>5 18 30</i>	1000		
	<i>5 27 15</i>	1100		
	<i>5 36 00</i>	1200		
	<i>5 44 05</i>	1300		
	<i>5 52 30</i>	1400		
	<i>5 0 55</i>	1500		
	<i>11 09 20</i>	1600		
	<i>11 18 00</i>	1700		
	<i>11 26 45</i>	1800		
	<i>11 35 30</i>	1900		
	<i>11 44 15</i>	2000		
	<i>11 53 00</i>	2100		
	<i>12 01 45</i>	2200		
	<i>12 10 30</i>	2300		
	<i>12 19 15</i>	2400		

Log read: Raw

Boat while reeling in

		2500	4706 2388	56 164
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200	4706	220
		3300	2388	
		3400	2388	164
		3500		21
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 132 Date 1891

Sigsbee Machine. 71 Reel. N

Turns 2397 Cor. + 167 Depth 2564 fms.

Shot or lead

Bottom fm. Oz.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 69 Surface 68 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
5-5	52-00	0		
6-5	51-55	100		
7-5	51-50	200		
8-5	51-45	300		
9-5	49-40	400		
10-5	46-35	500		
11-5	45-30	600		
12-5	44-25	700		
13-5	42-20	800		
14-5	41-15	900		
15-5	40-10	1000		
16-5	39-05	1100		
17-5	38-00	1200		
18-5	37-55	1300		
19-5	36-50	1400		
20-5	35-45	1500		
21-5	34-40	1600		
22-5	33-35	1700		
23-5	32-30	1800		
24-5	31-25	1900		
25-5	30-20	2000		
26-5	29-15	2100		
27-5	28-10	2200		
28-5	27-05	2300		
29-5	26-00	2400		
30-5	25-55	2500		
31-5	24-50	2600		
32-5	23-45	2700		
33-5	22-40	2800		
34-5	21-35	2900		
35-5	20-30	3000		
36-5	19-25	3100		
37-5	18-20	3200		
38-5	17-15	3300		
39-5	16-10	3400		
40-5	15-05	3500		
41-5	14-00	3600		
42-5	13-55	3700		
43-5	12-50	3800		
44-5	11-45	3900		
45-5	10-40	4000		
46-5	9-35	4100		
47-5	8-30	4200		
48-5	7-25	4300		
49-5	6-20	4400		
50-5	5-15	4500		
51-5	4-10	4600		
52-5	3-05	4700		
53-5	2-00	4800		
54-5	1-55	4900		
55-5	0-50	5000		

log read: 110

knots while pulling in

2500	4715	720
2600	2397	53
2700	2350	167
2800		2397
2900		2560
3000		
3100		
3200		
3300		
3400	4200	220
3500	2564	
3600	2	
3700		256
3800	4706	720
3900	2397	53
4000	2309	167

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

1007. 2788

No. 133 Survey Date 1907 5th
Machine. Reel. No.
Turns 2307 Cor. + 163 Depth 2470 fms.

Shot ~~or lead~~ 60 lbs.

Bottom gy. oz.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 69 Surface 68

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
40-10	14-30	1300		
41-30	17-15	1400		
43-00	14-45	1500		
44-45	12-25	1600		
46-00	10-45	1700		
47-30	08-25	1800		
49-00	06-35	1900		
50-30	05-0	2000		
52-15	02-30	2100		
53-45	8-00-30	2200		
55-30	7-59-00	2300		
		2400		

dry read 55.5
Raw 1-00 knots while pulling in.

2500	470	220
2600		57
2700	20	163
2800		220
2900		2470
3000		
3100		
3200		
3300		
3400	4706	220
3500	2307	57
3600	2400	163
3700		2307
3800		2470
3900		
4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *12* Date *1. 1. 1901*
Sigsbee Machine. # *1* Reel. *Ward*

Turns Cor. + Depth *2378 fms*

Shot or lead *60*

Bottom *gy. sh.*

Bottom temperature *34.2*

No. of thermometer *69473* Cor. *+1.0*

Corrected temperature *35.0*

Air *66* Surface *68* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.		UP.	TURNS.	DOWN.		UP.
<i>7-00</i>		<i>11-10</i>	0			
<i>1-00</i>		<i>1-00</i>	100			
<i>14-25</i>		<i>11-55</i>	200			
<i>15-40</i>		<i>10-40</i>	300			
<i>16-50</i>		<i>9-25</i>	400			
<i>18-0</i>		<i>8-10</i>	500			
<i>19-10</i>		<i>6-55</i>	600			
<i>20-20</i>		<i>5-40</i>	700			
<i>21-25</i>		<i>4-25</i>	800			
<i>22-00</i>		<i>3-10</i>	900			
<i>23-45</i>		<i>1-50</i>	1000			
<i>24</i>			1100			
<i>26-15</i>		<i>57-5</i>	1200			
<i>27-00</i>		<i>51-20</i>	1300			
<i>28-50</i>		<i>46-10</i>	1400			
<i>30-10</i>		<i>44-40</i>	1500			
<i>31-00</i>		<i>43-00</i>	1600			
<i>33-0</i>		<i>50-40</i>	1700			
<i>34-25</i>		<i>48-40</i>	1800			
<i>35-50</i>		<i>47-5</i>	1900			
<i>1-10</i>		<i>45-30</i>	2000			
<i>6-40</i>		<i>43-50</i>	2100			
<i>40-50</i>		<i>19-42.6</i>	2200			
			2300			
			2400			

Log read: 2378

Knobs while pulling in

Raw

	2500		
	2600		
	2700		
	2800		
	2900		
	3000		
	3100	4.706	220
	3200	<u>2720</u>	00
	3300	4486	100
	3400		<u>2220</u>
	3500		100
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

unfed reel while paying on

1903

5

No. *135-Survey* Date *Apr 8/91*

Machine. Reel.

Turns Cor. + Depth *2400*

Shot or lead *60 lbs.*

Bottom *br. M*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *64* Surface *67* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
	<i>34.30</i>	0		
		100		
<i>2-30</i>	<i>32.15</i>	200		
	<i>30.10</i>	300		
<i>4-00</i>	<i>28.05</i>	400		
	<i>26.00</i>	500		
	<i>24.45</i>	600		
<i>5-18-30</i>	<i>23.30</i>	700		
	<i>22.15</i>	800		
<i>1-0-50</i>	<i>21.00</i>	900		
	<i>19.45</i>	1000		
<i>3-30</i>	<i>18.30</i>	1100		
<i>4-50</i>	<i>17.15</i>	1200		
	<i>16.00</i>	1300		
	<i>14.45</i>	1400		
	<i>13.30</i>	1500		
	<i>12.15</i>	1600		
	<i>11.00</i>	1700		
<i>5-4-0</i>	<i>09.45</i>	1800		
<i>5-5-30</i>	<i>08.30</i>	1900		
<i>5-6-55</i>	<i>07.15</i>	2000		
	<i>06.00</i>	2100		
	<i>04.45</i>	2200		
	<i>03.30</i>	2300		
	<i>02.15</i>	2400		

*Log read while working in
Ran 0.5 knots*

	2500	4701	2289
	2600	2422	102
	2700		2289
	2800		2289
	2900		2289
	3000		
	3100	4701	2289
	3200	2422	102
	3300		2289
	3400		2289
	3500		2289
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *2791* Date *Aug 21 1881*
 Machine. Reel.
 Turns *217* Cor. + *64* Depth *277 fms*
 Shot or lead *60 lb*
 Bottom *fn. M.*
 Bottom temperature _____
 No. of thermometer _____ Cor. _____
 Corrected temperature _____
 Air *64* Surface *67* Drift _____
 Trawl or dredge _____

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>55. 00</i>	<i>3. 06. 00</i>	0		
<i>56. 15</i>	<i>59. 65</i>	100		
<i>57. 30</i>	<i>58. 05</i>	200		
<i>58. 45</i>	<i>57. 05</i>	300		
<i>59. 55</i>	<i>56. 05</i>	400		
<i>1. 00</i>	<i>55. 05</i>	500		
<i>2. 10</i>	<i>54. 05</i>	600		
<i>3. 20</i>	<i>53. 05</i>	700		
<i>4. 30</i>	<i>52. 10</i>	800		
<i>5. 40</i>	<i>51. 10</i>	900		
<i>6. 50</i>	<i>50. 10</i>	1000		
<i>8. 00</i>	<i>49. 40</i>	1100		
<i>9. 10</i>	<i>48. 30</i>	1200		
<i>10. 20</i>	<i>47. 30</i>	1300		
<i>11. 30</i>	<i>46. 35</i>	1400		
<i>12. 40</i>	<i>45. 40</i>	1500		
<i>13. 50</i>	<i>44. 40</i>	1600		
<i>15. 00</i>	<i>43. 45</i>	1700		
<i>16. 10</i>	<i>42. 45</i>	1800		
<i>17. 20</i>	<i>41. 45</i>	1900		
<i>18. 30</i>	<i>40. 45</i>	2000		
<i>19. 40</i>	<i>39. 50</i>	2100		
<i>20. 50</i>	<i>38. 45</i>	2200		
<i>21. 00</i>	<i>37. 45</i>	2300		
<i>22. 10</i>	<i>36. 45</i>	2400		

Log read: 276
 Ran 20' to while pulling in

		2500	4501 1010 <u>2291</u>	220 50 <u>164</u>
		2600		
		2700		
		2800		
		2900	4701	220
		3000	2310	<u>36</u>
		3100	<u>2321</u>	160
		3200		<u>2310</u>
		3300		200
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2792

No. 137, Date May 5, 1902

Machine #1 Reel

Turns 2432 Cor. + 163 Depth 2600 fms

Shot ~~or lead~~ 60 lbs

Bottom bn. m.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 64 Surface 67 Drift —

Trawl or dredge —

SOUNDING WIRE.			DREDGE ROPE.	
DOWN.	UP.	TURNS.	DOWN.	UP.
4-12-45	20-30	0		
14-00	19-30	100		
15-20	18-30	200		
16-30	17-30	300		
17-45	16-35	400		
19-00	15-45	500		
20-15	14-10	600		
21-30	13-15	700		
22-45	11-45	800		
24-20	10-15	900		
25-45	09-30	1000		
27-00	08-30	1100		
28-30	06-45	1200		
29-50	04-00	1300		
31-15	02-15	1400		
32-40	00-15	1500		
34-00	00-00	1600		
35-30	59-40	1700		
36-45	58-30	1800		
38-00	57-10	1900		
39-45	55-45	2000		
41-15	52-30	2100		
42-45	51-15	2200		
44-15	49-05	2300		
45-45	48-15	2432		
46-15	4-47-30			

Log read: 65.0 -
 Raw 1 3/10 knots while sailing

	2500	4706	220
	2600	<u>2432</u>	<u>52</u>
	2700	2274	168
	2800		<u>2432</u>
	2900		2600
	3000		
	3100		
	3200	4701	220
	3300	<u>2432</u>	<u>52</u>
	3400	2269	168
	3500		<u>2432</u>
	3600		2600
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

NO. 138

2793

No. 138 Date Nov 27 1882

Machine * / Reel

Turns 2252 Cor. + 160 Depth 2413

Shot or lead 60 lbs.

Bottom br. M.

Bottom temperature 35.1

No. of thermometer 69473 Cor. + 0.1

Corrected temperature 35.1

Air 65 Surface 64 Drift —

Trawl or dredge —

SOUNDING WIRE.

DREDGE ROPE.

DOWN.		UP.	TURNS.	DOWN.		UP.
6-	24-20	20-00	0			
25-	40	27-15	100			
26-	20	28-15	200			
27-	10	29-15	300			
28-	10	30-00	400			
29-	30	31-40	500			
30-	25	32-15	600			
31-	20	33-15	700			
32-	45	34-30	800			
33-	00	35-00	900			
34-	15	36-15	1000			
35-	30	37-30	1100			
36-	45	38-45	1200			
37-	00	39-00	1300			
38-	15	40-15	1400			
39-	30	41-30	1500			
40-	45	42-45	1600			
41-	00	44-00	1700			
42-	15	45-15	1800			
43-	30	46-30	1900			
44-	45	47-45	2000			
45-	00	49-00	2100			
46-	15	50-15	2200			
47-	30	51-30	2300			
48-	45	52-45	2400			

Log read: 78.6
 Saw 1 1/2 knots while pulling in.

	2500	4701	220
	2600	<u>2253</u>	<u>60</u>
	2700	2448	160
	2800		<u>2253</u>
	2900		<u>2413</u>
	3000		
	3100		
	3200		
	3300	4701	220
	3400	<u>2253</u>	<u>60</u>
	3500	2448	160
	3600		<u>2253</u>
	3700		<u>2413</u>
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2794

No. 139 Sigsbee Date Apr. 4/91
Machine. Reel. Sigsbee

Turns Cor. + Depth 2619 fms

Shot or lead 60 lbs

Bottom fm gy.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 67 Surface 68 Drift

Trawl or dredge

2794

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Log read: 2150
Knots while pulling in
Haw

	2450	1	
	2500		
	2600	2450	51
		<u>2251</u>	1
	2700		
	2800		
	2900		2619
	3000		
	3100	47.01	220
	3200	2450	51
		<u>2251</u>	<u>169</u>
	3300		2450
	3400		<u>2619</u>
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2795

No. 140 Date May 9/91
 Machine. #1 Reel. Marl
 Turns 160 Cor. + 160 Depth 2606 fms
 Shot or lead 60 lbs.
 Bottom br. s.
 Bottom temperature —
 No. of thermometer — Cor. —
 Corrected temperature —
 Air 68 Surface 68 Drift —
 Trawl, or dredge —

SOUNDING WIRE.		TURNS.	DREDGE NOPL.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
	58-35	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Log read:
 Run
 to whole point

S.D.	11-24-0	2438	4701	220
		2500		
		2600	2438	52
		2700	2263	168
		2800		2438
		2900		2606
		3000		
		3100		
		3200	4701	220
		3300	2438	52
		3400	2263	168
		3500		2438
		3600		2606
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2796

No. 14 Date Aug 9 1881

Machine. Reel.

Turns 2800 Cor. + 164 Depth 2964

Shot or lead 60 lb

Bottom not known

Bottom temperature

No. of thermometer 69473 Cor.

Corrected temperature

Air 64 Surface 67 Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

01.55 15.00 19

02.55 14.15 100

03.55 12.40 200

04.55 10.45 300

05.55 08.50 400

06.55 07.10 500

07.55 05.15 600

08.55 03.25 700

09.55 01.10 800

10.55 00.00 900

11.55 00.20 1000

12.55 00.20 1100

13.55 53.25 1200

14.55 51.10 1300

15.55 48.00 1400

16.55 46.30 1500

17.55 44.10 1600

18.55 42.10 1700

19.55 40.20 1800

20.55 38.40 1900

21.55 37.10 2000

22.55 35.40 2100

23.55 34.05 2200

24.55 32.30 2300

25.55 31.00 2400

Log read: 108.6

Raw 1.1

Lost some of it

6-73

		2500	2361	2302
		2600		2302
		2700		2302
		2800		
		2900		
		3000		
		3100		
		3200	473	220
		3300	23	56
		3400	23	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 1000
 White Pelting in and 14.5 wire
 1000
 1000
 1000
 1000

2797

No. 142 Survey Date Nov. 9 1891

Sigsbee Machine. *1 Reel. Navy

Turns 2700 Cor. + 179 Depth 2879

Shot or Lead 60

Bottom gn. G.

Bottom temperature 35.0 -

No. of thermometer 69488

Cor. - 0.1

Corrected temperature 35.1

Air 64

Surface 67

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

2-9-5	5-0	0
	11-0	100
	2-0	200
1-50	11-0	300
	44-3	400
	47-10	500
	45-5	600
	44-15	700
	47-30	800
	41-5	900
	36-15	1000
	36-15	1100
	34-20	1200
	32-40	1300
	31-15	1400
	29-5	1500
	28-0	1600
	25-0	1700
13	24-0	1800
2-00	21-50	1900
15	19-50	2000
5-00	18-0	2100
57-15	16-10	2200
54-45	14-20	2300
4-00-15	4-12-40	2400

log, lead: 11.6
 Navy
 Dredge white pulling in

U. 02-00	11-01	2500	4682	219
03-36	09-10	2600	3700	40
05-00	4-07-15	2700	1982	179
		2800		2700
		2900		2879
		3000		
		3100		
		3200		
		3300	4682	219
		3400	2700	40
		3500	1982	179
		3600		2700
		3700		2879
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

2798

No. *143* Survey Date *Mar 9/91*
 Sigsbee Machine. *11* Reel. *11*
 Turns *3186* Cor. + *1* Depth *3186*
 Shot or lead *60 lbs*

Bottom

Bottom temperature

No. of thermometer *—* Cor. *—*

Corrected temperature

Air *65* Surface *67* Drift *—*

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1</i>	<i>25-55</i>	<i>0</i>		
<i>30</i>	<i>26-55</i>	<i>100</i>		
<i>03-30</i>	<i>25-55</i>	<i>200</i>		
<i>04-10</i>	<i>24-55</i>	<i>300</i>		
<i>05-10</i>	<i>23-55</i>	<i>400</i>		
<i>06-10</i>	<i>22-55</i>	<i>500</i>		
<i>07-10</i>	<i>21-30</i>	<i>600</i>		
<i>08-10</i>	<i>20-20</i>	<i>700</i>		
<i>09-40</i>	<i>19-10</i>	<i>800</i>		
<i>10-10</i>	<i>17-55</i>	<i>900</i>		
<i>11-35</i>	<i>16-50</i>	<i>1000</i>		
<i>12-45</i>	<i>15-45</i>	<i>1100</i>		
<i>13-00</i>	<i>14-35</i>	<i>1200</i>		
<i>14-20</i>	<i>13-25</i>	<i>1300</i>		
<i>15-40</i>	<i>12-10</i>	<i>1400</i>		
<i>16-00</i>	<i>10-50</i>	<i>1500</i>		
<i>17-20</i>	<i>09-30</i>	<i>1600</i>		
<i>18-00</i>	<i>08-10</i>	<i>1700</i>		
<i>19-20</i>	<i>06-45</i>	<i>1800</i>		
<i>20-45</i>	<i>05-30</i>	<i>1900</i>		
<i>21-10</i>	<i>04-20</i>	<i>2000</i>		
<i>22-40</i>	<i>03-5</i>	<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

		2500	10.1	7.0
		2600	10.1	7.0
		2700	10.1	7.0
		2800	10.1	7.0
		2900	10.1	7.0
		3000	10.1	7.0
		3100		
		3200		
		3300	4682	219
		3400	2995	28
		3500	1687	171
		3600		2205
		3700		6186
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *2799* Date *Oct 9 1880*
 Machine. *Sigsbee* Reel. *11*
 Turns *250* Cor. + *16* Depth *250 fms*
 Shot or lead *60 lb.*
 Bottom *m. oz.*
 Bottom temperature _____
 No. of thermometer _____ Cor. _____
 Corrected temperature _____
 Air *65* Surface *67* Drift _____
 Trawl or dredge _____

SOUNDING WIRE.

DREDGE ROPE.

TURNS.

DOWN.

UP.

DOWN.

UP.

<i>54.30</i>	0
<i>55.15</i>	100
<i>56.00</i>	200
<i>56.45</i>	300
<i>57.30</i>	400
<i>58.15</i>	500
<i>59.00</i>	600
<i>59.45</i>	700
<i>60.30</i>	800
<i>61.15</i>	900
<i>62.00</i>	1000
<i>62.45</i>	1100
<i>63.30</i>	1200
<i>64.15</i>	1300
<i>65.00</i>	1400
<i>65.45</i>	1500
<i>66.30</i>	1600
<i>67.15</i>	1700
<i>68.00</i>	1800
<i>68.45</i>	1900
<i>69.30</i>	2000
<i>70.15</i>	2100
<i>71.00</i>	2200
<i>71.45</i>	2300
<i>72.30</i>	2400

Key read - 5.6
Run 13 knots, while reeling in

		2500	1468 2342 <u>2342</u>	210 55 <u>165</u>
		2600		
		2700		
		2800		
		2900		
		3000		
		3100	4682	219
		3200	2340	55
		3300	2042	54
		3400		2340
		3500		2504
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

17500

No. 45 Date

Machine. Reel. Navy

Turns 2423 Cor. + 168 Depth 2591

Shot or lead 60 lbs

Bottom - br. gy

Bottom temperature

No. of thermometer 67485 Cor. +.01

Corrected temperature 35.1

Air 68 Surface 68 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
11.25	25.00	0		
12.15	24.10	100		
13.05	23.10	200		
13.55	22.30	300		
14.45	21.30	400		
15.35	20.30	500		
16.25	19.30	600		
17.15	18.35	700		
18.05	17.35	800		
18.55	16.30	900		
19.45	15.20	1000		
20.35	14.15	1100		
21.25	13.10	1200		
22.15	12.05	1300		
23.05	11.05	1400		
23.55	10.00:05	1500		
24.45	08.55	1600		
25.35	07.40	1700		
26.25	06.30	1800		
27.15	05.20	1900		
28.05	04.10	2000		
28.55	03.05	2100		
29.45	02.00	2200		
30.35	01.30	2300		
31.25	00.50	2400		
32.15	11.46.00	2423		

2500

2600

2700

219
51

168

4682
2423

2259

4682	219
2423	51
<hr/>	<hr/>
2259	168
	2423
	<hr/>
	2591

Series Temp

1 - 0

2 - 87

3 - 500

4 - 387

5 - 36.8

6 - 460

7 - 550

8 - 644

9 - 736

10 - 830

11 - 874

12 - 896

$$\begin{array}{r} 4706 \\ 400 \\ \hline 4306 \end{array}$$

$$\begin{array}{r} 220 \\ 185 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 4400 \\ 05 \\ \hline 885 \end{array}$$



220

$$\begin{array}{r} 4706 \\ 100 \\ \hline 4506 \end{array}$$

5.

$$\begin{array}{r} 100 \\ 18 \\ \hline 82 \end{array} \quad \begin{array}{r} 4706 \\ 85 \\ \hline 4621 \end{array} \quad \begin{array}{r} 4706 \\ 2000 \\ \hline 2706 \end{array}$$

$$\begin{array}{r} 220 \\ 74 \\ \hline 146 \\ 2 \\ \hline 2146 \end{array}$$

85

170

$$\begin{array}{r} 4706 \\ 170 \\ \hline 4536 \end{array}$$

$$\begin{array}{r} 203 \\ 10 \\ \hline \end{array}$$



$$\begin{array}{r} 4706 \\ 172 \\ \hline 4524 \end{array}$$

$$\begin{array}{r} 220 \\ 203 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 86 \\ 17 \\ \hline 103 \end{array}$$